



**ENGINEERING OPERATIONS COMMITTEE
MEETING MINUTES
APRIL 3, 1997, 9:00 A.M.
EXECUTIVE CONFERENCE ROOM**

Present:	T. A. Coleman	L. R. Brown	C. J. Arnold
	J. D. Culp	P. F. Miller	D. L. Smiley (J. W. Reincke)
	T. Fort	W. C. Turner	E. Savas
	E. D. Winkler	R. S. Cadena (S. E. Hohl)	C. Roberts
Guest:	G. Baladi (MSU)	S. Bower	A. Dionise

OLD BUSINESS

1. Approval of the Minutes of the March 13, 1997, Meeting -T. A. Coleman

Minutes of the March 13, 1997, meeting were approved as written.

2. Corridor Basis Construction (CBC) - C. J. Arnold/W. C. Turner

No progress to report. The CBC Committee, envisioned to have a Region member selected as new Chair, is affected by early retirement. Several new nominations will be required to fill vacancies on the committee. As an additional note, the Pavement Management System will be completed shortly.

ACTION: C. J. Arnold will recommend new names.

3. Speed Limits in Work Zones - J. D. Culp/L. R. Brown/P. F. Miller

Progress is being made on the final rewrite of procedures on maintenance related activities. We will continue in our efforts to monitor safety related issues by entering into a contract with Michigan State University.

ACTION: The Maintenance Division will proceed with the final development of its guidelines for short duration operations.

4. Bituminous Advisory Committee (BAC) Future - E. D. Winkler

An update was provided and a report will be presented at the May meeting for consideration and action.

5. Emergency Classification Guideline for Bridge Inspectors - L. R. Brown

A draft report was presented on the interim guidelines for emergency classification of bridges. Discussions centered around the impact of the revised guidelines, the need to work with districts for input and to ensure major issues are addressed as part of the implementation

plan. Additional efforts will continue to ensure that the guidelines address coordination of activities and resolution of identified problems. The FHWA expressed their support of the department's effort and direction taken to address our bridges.

ACTION: The Maintenance Division will proceed with the development of the guidelines and coordinate its efforts with the districts.

6. **Mechanistic Design Implementation Plan for Flexible Pavement and Overlays - D. L. Smiley/G. Baladi**

A presentation was provided in outlining the evolution of how pavements are designed and the need for the department's redirection in pursuit of the proposed mechanistic design implementation plan for flexible pavement and overlays. The committee's discussion revealed that several issues must be addressed as part of the proposal in making the transition from the present to the future.

ACTION: A presentation will be made at the May meeting, which will address the committee's request for additional information regarding the issues for implementation as well as transition from our present to future operations.

NEW BUSINESS

1. **Federal Highway Administration Mandate - C. Libiran, Barrier Advisory Committee**

Effective August 16, 1998, the FHWA will no longer allow the bridge rails on the National Highway System (NHS) that have not met the crash test acceptance criteria in NCHRP Report 350. The Barrier Advisory Committee (BAC) conducted an extensive investigation, which included a review of current acceptable rails and crash tests scheduled, involvement of the Planning Division and FHWA, study of our current designs, and query other states. The major issues involve the need to meet all federal safety requirements and aesthetic needs for open view rails.

The BAC recommends and request approval of the following:

- A. Discontinue Michigan three-tube and solid parapet rail standard in favor of BR27C design. A note is to be added to the new standard plan for the BR27C railing prohibiting the use of slip-form construction for the concrete portion of the railing. The concrete must be formed and poured in place.
- B. Pursue development of combination traffic/pedestrian with full open view (i.e. all steel tube type).
- C. Continue use of two-tube on low speed roadways and pursue development of two-tube design for high speed application.

ACTION: The proposed recommendations were approved as presented.

2. Life Cycle Pavement Type Selection - W. C. Turner

This item was tabled until the May meeting.

3A. Warranty Work on Guardrail - P. F. Miller

Information: A review is underway to ascertain other states' experience in establishing warranty type contracts for work on guardrail endings and attenuators. A determination will be made upon a complete assessment of all pertinent issues as to the viability of pursuing warranty work on guardrail.

ACTION: The Construction Division was requested to follow-up on this issue with the BAC for consideration and development of a proposal for EOC action.

3B. Skip Patches - E. D. Winkler

Information: This is an "M" funded program. These are two year fixes at multiple locations for each project. these are regular contracts with a 90 day delayed acceptance, during which time the contractor will "guarantee" there will be no flushing nor rutting of the pavement. MDOT will also sample at the paver for acceptance testing.

(Signed Copy on File at M&T)

Calvin Roberts, Secretary
Engineering Operations Committee

CR:kat

cc: EOC Members

District Engineers

R. A. Welke

D. L. Coleman

D. L. Smiley

L. E. DeFrain

I. B. Patel

S. Bower

B. Richter

R. J. Risser, Jr. (MCPA)

A. C. Milo (MRBA)

J. Becsey (MAPA)

G. L. Mitchell

M. Newman (MAA)

M. Frierson

L. K. Heinig

G. H. Grove

R. W. Muller

G. J. Bukoski

J. Steele (FHWA)

R. J. Lippert, Jr.

T. Adams (MCA)

R. D. Till

R. E. Nordlund

C. W. Whiteside

K. Rothwell

C. Libiran